SATELLITE TRANSMITTING ANTENNA BEAM DETAILS PAGE 17 OF 33
5. CHARACTERISTICS OF THE BEAM ADDIMOD/SUP of the beam
b. TRANSMITTING BEAM DESIGNATION KILL R NOTE: For a steerable beam, the third character of the beam designation shall be "R"
OLD BEAM DESIGNATION (# changed)
ANTENNA CHARACTERISTICS
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g. POLARIZATION 1 D 1 C2/02. ANTENNA GAIN CONTOURS DIAGRAM O 1
A/2. ANTENNA RADIATION PATTERN DIAGRAM II. ESTIMATED ANTENNA GAIN DIAGRAM VS ORBIT LONGITUDE AYTACHED SEE FIGURE NO 0 3
INFORMATION TO BE PROVIDED FOR THIS TRANSMITTING ANTENNA BEAM
28. CLASS EC 25. NATURE CR 22. CLASS OF STATION OF SERVICE OF SERVICE
2a. CLASS OF STATION OF SERVICE 2a. CLASS OF STATION OF SERVICE 2b. NATURE OF SERVICE PERIOD OF VALIDITY 2 0 Years
1. SERVICE AREA OR SERVICE AREA DIAGRAM O 1
3/Fb. FREQUENCY RANGE WITHIN WHICH THE CARRIERS WILL BE LOCATED
Add/Mod/Sup FREQUENCY K/M/G IFRB IDENTIFICATION NUMBER of the freq. range Hz for modification/suppression
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SPACE STATION EMISSIONS AND ASSOCIATED RECEIVING STATION(S) INFORMATION
EMISSIONS AND POWER CHARACTERISTICS 8. MODULATION
6/483. NECESSARY BANDWIDTH OR 4a2/4b. TOTAL 4a1/G3b. MAXIMUM 4c. MINIMUM CARRIER Fd. SPACE STATION ATTACHED SEE 1 Fd/G3a. DESIGNATION OF EMISSION 1 PEAK POWER 1 POWER DENSITY POWER 1 E.I.R.P. 1 ATTACHMENT NO.
125MG7W
F. SPACE STATION CHARACTERISTICS OF RECEIVING SPACE STATIONS FOR SPACE-TO-SPACE RELAYS a. SPACE STATION NAME ADDMOD/SUP of the station DESIGNATION OF TYPICAL EARTH STATION 8 5 c m T E R M N A L
Bb1. RADIATION PATTERN (give reference pattern or provide diagram) Sa. RECEIVING SYSTEM NOISE TEMPERATURE REC. S 4 6 5 - 5 SEE FIGURE NO.: SEE FIGURE NO.: SEE FIGURE NO.:
MORE EMISSIONS ON NEXT PAGE MORE ASSOC. RECEIVING STATIONS ON NEXT PAGE MORE ASSOC. RECEIVING STATIONS ON NEXT PAGE
REMARKS:

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RECEIVING EARTH STATION PROVIDE THE EARTH STATION DETAILS AS SPECIFIED. IF THIS IS A SPACE-TO-SPACE RELAY, IDENTIFY THE OTHER SPACE STATION(S) IN THE
BOX TITLED SPACE STATION'. USE AS MANY PAGES AS NECESSARY.

	S	ATELLIT	E TRANSI	MITTING ANTENNA	A BEAM DETA	AILS	PAGE 1	8 of 33
				5. CHARACTER	ISTICS OF THE BEA	AM		DD/MOD/SUP of the beam
	b. TR	ANSMITTING BE	AM DESIGNATION	K1R NOTE	For a steerable beam, the th	nird character of the beam de	esignation shall be "R"	
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		e/12. AN	TENNA RADIATION P ATTACHED	ATTERN DIAGRAM SEE FIGURE NO		ESTIMATED ANTENNA GAIR LONGITUDE ATTACHED		03
			INFORMA	TION TO BE PROVIDED FO	OR THIS TRANSMIT	TTING ANTENNA BE	AM	
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SATELLITE TRANSMITTING ANTENNA BEAM DETAILS PAGE 19 OF 33
5. CHARACTERISTICS OF THE BEAM ADDIMODISUP of the beam
b. TRANSMITTING BEAM DESIGNATION K 1 R NOTE: For a steerable beam, the third character of the beam designation shall be "R"
OLD BEAM DESIGNATION (il changed)
ANTENNA CHARACTERISTICS
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g. POLARIZATION 1 D 1 2/1/2. ANTENNA GAIN CONTOURS DIAGRAM 0 1
N2. ANTENNA RADIATION PATTERN DIAGRAM ATTACHED SEE FIGURE NO LONGITUDE ATTACHED SEE FIGURE NO
INFORMATION TO BE PROVIDED FOR THIS TRANSMITTING ANTENNA BEAM
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2a. CLASS 2b. NATURE 2a. CLASS 2b. NATURE PERIOD OF VALIDITY 2 0 Years
1. SERVICE AREA OR SERVICE AREA DIAGRAM ATTACHED
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TO 2002000G
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SATELLITE TRANSMITTING ANTENN	NA BEAM DETAILS
5. CHARACTE	RISTICS OF THE BEAM ADD/MOD/SUP of the beam
b. TRANSMITTING BEAM DESIGNATION KIR R NOTE	E: For a steerable beam, the third character of the beam designation shall be "R"
	OLD BEAM DESIGNATION (# changed)
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g. POLARIZATION 1 D	c2/d2. ANTENNA GAIN CONTOURS DIAGRAM ATTACHED SEE FIGURE NO
e/2. ANTENNA RADIATION PATTERN DIAGRAM ATTACHED SEE FIGURE NO	h. ESTIMATED ANTENNA GAIN DIAGRAM VS ORBIT LONGITUDE ATTACHED SEE FIGURE NO
INFORMATION TO BE PROVIDED	FOR THIS TRANSMITTING ANTENNA BEAM
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22. CLASS OF STATION 25. NATURE OF SERVICE 22. CLASS OF STATION	2b. NATURE PERIOD OF VALIDITY 2 0 Years
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F. SPACE STATION ADDIMOD/SUP	EARTH STATION ADDAMOD/SUP
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a. SPACE STATION NAME	300cm TERMINAL
	8b1. RADIATION PATTERN (give reference pattern or provide diagram) 8a. RECEIVING SYSTEM NOISE
G3C, BEACON AND TELEMETRY INFORMATION ATTACHED, SEE ATTACHMENT NO.:	REC S 4 6 5 - 5 TEMPERATURE Bb2. ANTENNA RADIATION DIAGRAM ATTACHED CONTROL TEMPERATURE
MORE EMISSIONS ON NEXT PAGE MORE ASSOC. RECEIVING STATIONS ON NEXT PAGE	SEE FIGURE NO.: 200
REMARKS:	

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SATELLITE TRANSMITTING ANTENNA BEAM DETAILS PAGE 21 OF 33
5. CHARACTERISTICS OF THE BEAM ADDMOD/SUP of the beam
b. TRANSMITTING BEAM DESIGNATION KIR NOTE: For a steerable beam, the third character of the beam designation shall be "R"
OLD BEAM DESIGNATION (il changed)
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g. POLARIZATION 1 D C2/d2. ANTENNA GAIN CONTOURS DIAGRAM ATTACHED SEE FIGURE NO 0 1
ATTACHED SEE FIGURE NO LONGITUDE ATTACHED SEE FIGURE NO 0 3
INFORMATION TO BE PROVIDED FOR THIS TRANSMITTING ANTENNA BEAM
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2a. CLASS OF STATION 2b. NATURE OF STATION 2c. CLASS OF STATION 2c. CLASS OF STATION 2c. CLASS OF STATION 2c. CLASS OF SERVICE PERIOD OF VALIDITY 2 0 Years
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EMISSIONS AND POWER CHARACTERISTICS 8. MODULATION CHARACTERISTICS
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F. SPACE STATION CHARACTERISTICS OF RECEIVING SPACE STATIONS FOR SPACE-TO-SPACE RELAYS a. SPACE STATION NAME G3c. BEACON AND TELEMETRY INFORMATION ATTACHED. SEE ATTACHMENT NO.: MORE EMISSIONS ON NEXT PAGE ADDAMODYSUP of the station DESIGNATION OF TYPICAL EARTH STATION DESIGNATION OF TYPICAL EARTH STATION ADDAMODYSUP of the station DESIGNATION OF TYPICAL EARTH STATION BESIGNATION OF TYPICAL EARTH STATION ADDAMODYSUP of the station DESIGNATION OF TYPICAL EARTH STATION BESIGNATION OF TYPICAL EARTH STATION ADDAMODYSUP of the station DESIGNATION OF TYPICAL EARTH STATION ADDAMODYSUP of the station DESIGNATION OF TYPICAL EARTH STATION BESIGNATION OF TYPICAL EARTH STATION ADDAMODYSUP of the station ADDAMODYSUP of the station DESIGNATION OF TYPICAL EARTH STATION BESIGNATION OF TYPICAL EARTH STATION ADDAMODYSUP of the station DESIGNATION OF TYPICAL EARTH STATION BESIGNATION OF TYPICAL EARTH STATION ADDAMODYSUP of the station DESIGNATION OF TYPICAL EARTH STATION ADDAMODYSUP of the station DESIGNATION OF TYPICAL EARTH STATION ADDAMODYSUP of the station DESIGNATION OF TYPICAL EARTH STATION ADDAMODYSUP of the station DESIGNATION OF TYPICAL EARTH STATION ADDAMODYSUP of the station DESIGNATION OF TYPICAL EARTH STATION ADDAMODYSUP of the station DESIGNATION OF TYPICAL EARTH STATION ADDAMODYSUP Of the station DESIGNATION OF TYPICAL EARTH STATION ADDAMODYSUP Of the station DESIGNATION OF TYPICAL EARTH STATION ADDAMODYSUP Of the station DESIGNATION OF TYPICAL EARTH STATION BAS RECEIVING SYSTEM NOISE TEMPERATURE Kenvins 2 0 0 0
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	9	SATELLIT	TE TRANS	MITTING ANTE	NNA BEA	M DET	AILS		P.	AGE 2	2 of 3	3	
		-		5. CHARAC	TERISTICS C	F THE BE	AM			_	D/MOD/SUP I the beam		
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SATELLITE TRANSMITTING ANTENNA BEAM DETAILS
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OLD BEAM DESIGNATION (if changed)
ANTENNA CHARACTERISTICS
c1/d1/11. MAXIMUM ISOTROPIC GAIN +/- dBi + 4 1 • 0
g. POLARIZATION 1 D C2/d2. ANTENNA GAIN CONTOURS DIAGRAM O 2
h. ESTIMATED ANTENNA GAIN DIAGRAM VS ORBIT ATTACHED SEE FIGURE NO LONGITUDE ATTACHED SEE FIGURE NO
INFORMATION TO BE PROVIDED FOR THIS TRANSMITTING ANTENNA BEAM
2a. CLASS EC 2b. NATURE CR 2a. CLASS OF STATION OF SERVICE OF STATION
22. CLASS 25. NATURE 22. CLASS 25. NATURE OF STATION OF SERVICE PERIOD OF VALIDITY 2 0 Years
1. SERVICE AREA OR SERVICE AREA DIAGRAM O 2
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SPACE STATION EMISSIONS AND ASSOCIATED RECEIVING STATION(S) INFORMATION
EMISSIONS AND POWER CHARACTERISTICS 8. MODULATION CHARACTERISTICS
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F. SPACE STATION CHARACTERISTICS OF RECEIVING SPACE STATIONS FOR SPACE-TO-SPACE RELAYS a. SPACE STATION NAME ADDIMOD/SUP of the station DESIGNATION OF TYPICAL EARTH STATION 3 0 0 c m TERMINAL
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	S	ATELLIT	E TRANSI	MITTING ANTE	NNA BEA	M DET	AILS	8	PAC	E 24	OF 33	
				5. CHARAC	TERISTICS (OF THE BE	EAM			ADD/MC of the		
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			INFORMA	TION TO BE PROVIDE	ED FOR THIS	TRANSMI	TTING	ANTENNA BEA	AM			
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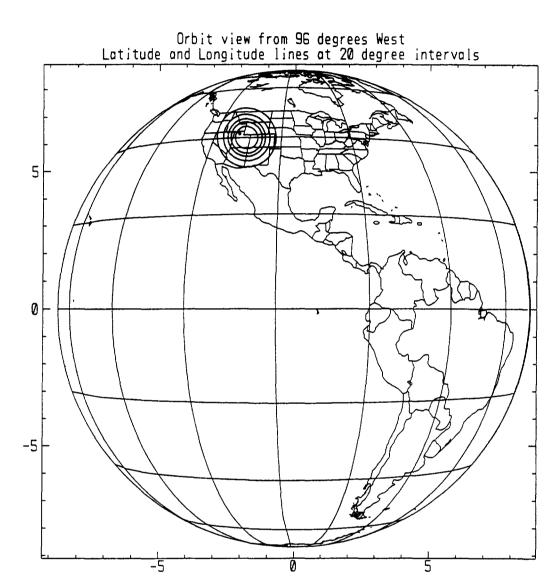
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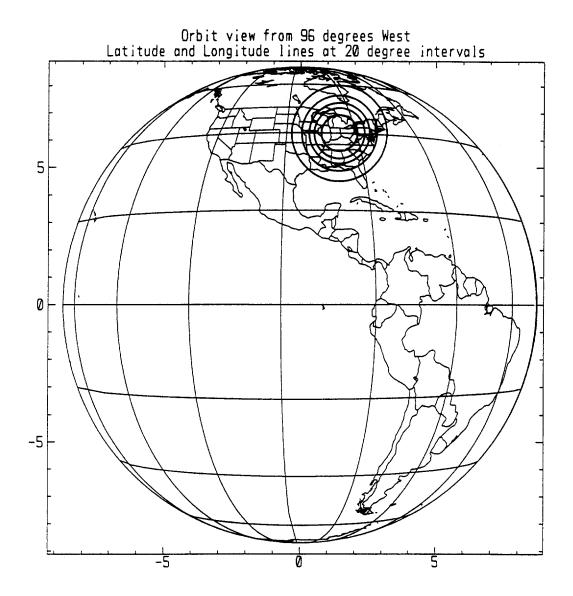
FIGURE 01 SPACE STATION RECEIVING AND TRANSMITTING ANTENNA GAIN CONTOURS FOR BEAM "K1R"



Notes:

- 1. The space station antenna coverage actually consists of multiple overlapping spot-beams, designed to cover all the visible land areas, and capable of being pointed to any part of the visible Earth's surface. Only one such typical spot-beam is shown as an example. All beams may operate at all associated assigned frequencies.
- 2. Service area consists of all visible land areas of the Earth.
- 3. Maximum isotropic gain is +44.0 dBi.
- 4. Contours shown are -2, -4, -6, -10 and -20 dB relative to maximum gain.
- 5. Does not include antenna pointing error which is $\pm 0.15^{\circ}$ worst case.

FIGURE 02 SPACE STATION RECEIVING AND TRANSMITTING ANTENNA GAIN CONTOURS FOR BEAM "K2R"



Notes:

- 1. The space station antenna coverage actually consists of a steerable beam, capable of being pointed to any part of the visible Earth's surface.
- 2. Service area consists of all visible land areas of the Earth.
- 3. Maximum isotropic gain is +41.0 dBi.
- 4. Contours shown are -2, -4, -6, -10 and -20 dB relative to maximum gain.
- 5. Does not include antenna pointing error which is ±0.15° worst case.

FIGURE 03 GAIN TOWARDS GEOSTATIONARY SATELLITE ORBIT FOR BEAMS "K1R" AND "K2R"

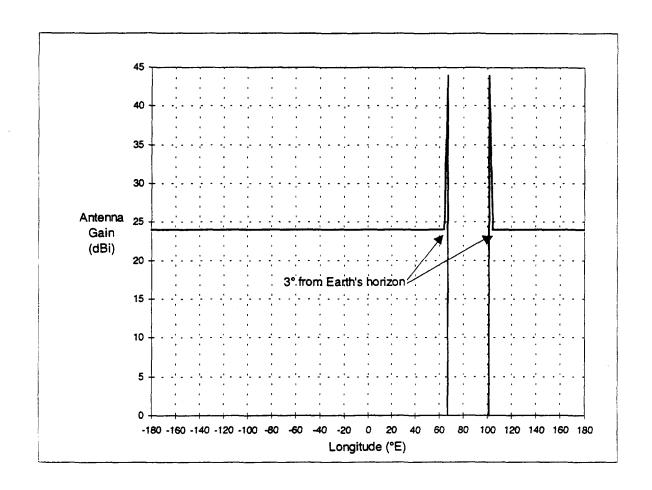


FIGURE 04 SPACE STATION ANTENNA RADIATION PATTERN FOR BEAMS "SER" AND "SWR"

Angle from Boresight (°)	Maximum Gain (dBi)
-180	+30
all angles from -180 to -2	+30
-2.0	+30
-1.7	+35
-1.5	+40
-1.3	+45
-1.0	+50
-0.5	+53
0.0	+55
0.5	+53
1.0	+50
1.3	+45
1.5	+40
1.7	+35
2.0	+30
all angles from 2 to 180	+30
180	+30

Notes:

- 1. Antenna is rotationally symmetric.
- 2. Nominal boresight directions are as follows:

Beam SER:

29°W geostationary orbit

Beam SWR:

168°E geostationary orbit.

- 3. Service area is within $\pm 2^{\circ}$ of boresight.
- 4. Beam is steerable.